

## CLAIMS

What is claimed is:

1. A debugging method using a USB (universal serial bus) connecting system for debugging a target PC from a host PC, which comprises the steps of:

5 driving a USB interface to connect the target PC and the host PC through the USB connecting system;

reading a flow control flag of a BIOS and detecting the value of the flow control flag;

10 compiling a program code with the function of outputting a debug signal into data of the BIOS of the target PC;

outputting the data through a transmission unit; and

displaying the data on a screen of the host PC.

2. The method of claim 1, wherein the flow control flag is set by a user to have a value selected from 0 and 1 to determine whether debugging should be monitored.

15 3. The method of claim 1, wherein the data further contain the program code with the function of outputting the debug signal.

4. The method of claim 1, wherein if the flow control flag indicates not to perform debugging in the step of detecting the value of the flow control flag, the program code with the function of outputting the debug signal does not compile into the BIOS.

20 5. The method of claim 1, wherein the BIOS in work further executes the steps of:

initializing a USB controller of the target PC; and

outputting the data to the host PC through a connecting unit.

6. The method of claim 1, wherein the transmission unit is a USB cable for connecting the host PC and the target PC.

7. The method of claim 1, wherein the host PC further contains a USB port connecting  
5 to the USB cable.

8. The method of claim 1, wherein the target PC further contains a USB port connecting to the USB cable.

9. The method of claim 1, wherein the target PC is a computer system that performs debugging.

10. The method of claim 1, wherein the host PC is a computer system that monitors the  
10 program code with the function of outputting the debug signal.

11. A method of debugging using a USB connecting system for debugging a target PC from a host PC, which comprises the steps of:

15 compiling a debug signal and driving a USB interface to connect the target PC and the host PC through the USB connecting system;

reading a flow control flag and detecting the value of the flow control flag;

outputting the debug signal to data of the BIOS of the target PC;

outputting the data through a transmission unit; and

displaying the data on a screen of the host PC.

20 12. The method of claim 11, wherein the value of the flow control flag is set by a user to have a value selected from 0 and 1 to determine whether debugging should be monitored.

13. The method of claim 11, wherein the data further contain the debug signal.

14. The method of claim 11, wherein if the flow control flag indicates not to perform debugging in the step of detecting the value of the flow control flag, the target PC does not output the debug signal.

5 15. The method of claim 11, wherein the BIOS in work further executes the steps of:

initializing a USB controller of the target PC; and

outputting the data to the host PC through a connecting unit.

16. The method of claim 11, wherein the transmission unit is a USB cable for connecting the host PC and the target PC.

10 17. The method of claim 11, wherein the host PC further contains a USB port connecting to the USB cable.

18. The method of claim 11, wherein the target PC further contains a USB port connecting to the USB cable.

15 19. The method of claim 11, wherein the target PC is a computer system that performs debugging.

20. The method of claim 11, wherein the host PC is a computer system that monitors the program code with the function of outputting the debug signal.